```
import java.util.Scanner;

public class NumberGame {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);

      while (true) {
         System.out.print("Enter a number [1-10]: ");


         if (!scanner.hasNextInt()) {
            System.out.println("Invalid Input");
            scanner.next(); // clear invalid input
            continue;
         }

         int userNum = scanner.nextInt();


         if (userNum < 1 || userNum > 10) {
            System.out.println("Invalid Input");
            continue;
         }


         int compNum = (int)(Math.random() * 10) + 1;

         System.out.println("Your Number = " + userNum);
         System.out.println("Computer Number = " + compNum);

         if (userNum > compNum) {
            System.out.println("Congrats!!!");
         } else if (userNum < compNum) {
            System.out.println("Hard luck!!!");
         } else {
            System.out.println("Draw!!");
         }
      }
   }
}
```

2nd

```
import java.util.Scanner;

public class CircleCheck {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);

      System.out.print("Enter circle’s point (x): ");
      int x = scanner.nextInt();

      System.out.print("Enter circle’s point (y): ");
      int y = scanner.nextInt();
```

```
        double distance = Math.sqrt(x * x + y * y);

        if (distance <= 10) {
            System.out.println("The point is inside the circle");
        } else {
            System.out.println("The point is outside the circle");
        }
    }
}
```

3rd string methods

```
import java.util.Scanner;

public class HusseinNumbers {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Hi Hussein, enter the number: ");
        String numStr = scanner.nextLine();


        String[] parts = numStr.split("\\.");

              int beforeDecimal = parts[0].length();

             int afterDecimal = (parts.length > 1) ? parts[1].length() : 0;

              System.out.println(beforeDecimal + "." + afterDecimal);
    }
}
```

AI helped me in the last one:)